



[7590-01-P]

NUCLEAR REGULATORY COMMISSION

[NRC-2014-0273]

**Impact of Variation in Environmental Conditions on the Thermal Performance of
Dry Storage Casks**

AGENCY: Nuclear Regulatory Commission.

ACTION: Draft NUREG; request for comment.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is issuing for public comment a draft NUREG, NUREG-2174, "Impact of Variation in Environmental Conditions on the Thermal Performance of Dry Storage Casks." This report evaluates spent fuel dry storage cask thermal impact of varying environmental conditions and transient thermal behavior when subjected to a sudden boundary condition change. Different cask designs are evaluated (vertical underground, vertical aboveground, and horizontal aboveground). The NRC staff will consider the analysis results in this report when performing technical reviews, applicants should consider them when applying for cask certification. These results can be used as additional guidance when considering the thermal impact of the environmental factors in the thermal performance of dry storage systems.

DATES: Submit comments by **[INSERT DATE 60 DAYS FROM DATE OF PUBLICATION IN THE FEDERAL REGISTER]**. Comments received after this date will be considered if it is

practical to do so, but the Commission is able to ensure consideration only for comments received before this date.

ADDRESSES: You may submit comments by any of the following methods (unless this document describes a different method for submitting comments on a specific subject):

- **Federal Rulemaking Web Site:** Go to <http://www.regulations.gov> and search for Docket ID **NRC-2014-0273**. Address questions about NRC dockets to Carol Gallagher; telephone: 301-415-3463; e-mail: Carol.Gallagher@nrc.gov. For technical questions, contact the individual listed in the FOR FURTHER INFORMATION CONTACT section of this document.
- **Mail comments to:** Cindy Bladey, Office of Administration, Mail Stop: OWFN-12-H08, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

For additional direction on obtaining information and submitting comments, see “Obtaining Information and Submitting Comments” in the SUPPLEMENTARY INFORMATION section of this document.

FOR FURTHER INFORMATION CONTACT: Jorge Solis, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission Washington, DC 20005-0001; telephone: 301-287-9094; e-mail: jorge.solis@nrc.gov.

SUPPLEMENTARY INFORMATION:

I. Obtaining Information and Submitting Comments.

A. Obtaining Information.

Please refer to Docket ID **NRC-2014-0273** when contacting the NRC about the availability of information for this action. You may obtain publicly-available information related to this action by any of the following methods:

- **Federal Rulemaking Web Site:** Go to <http://www.regulations.gov> and search for Docket ID **NRC-2014-0273**.

- **NRC's Agencywide Documents Access and Management System (ADAMS):**

You may obtain publicly-available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "[ADAMS Public Documents](#)" and then select "[Begin Web-based ADAMS Search](#)." For problems with ADAMS, please contact the NRC's Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to pdr.resource@nrc.gov. The draft NUREG is available in ADAMS under Accession No. ML15054A207.

- **NRC's PDR:** You may examine and purchase copies of public documents at the NRC's PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

B. Submitting Comments.

Please include Docket ID **NRC-2014-0273** in your comment submission.

The NRC cautions you not to include identifying or contact information that you do not want to be publicly disclosed in your comment submission. The NRC posts all comment submissions at <http://www.regulations.gov> as well as entering the comment submissions into ADAMS. The NRC does not routinely edit comment submissions to remove identifying or contact information.

If you are requesting or aggregating comments from other persons for submission to the NRC, then you should inform those persons not to include identifying or contact information that they do not want to be publicly disclosed in their comment submission. Your request should state that the NRC does not routinely edit comment submissions to remove such information before making the comment submissions available to the public or entering the comment submissions into ADAMS.

II. Discussion.

The NRC is issuing Draft “Impact of Variation in Environmental Conditions on the Thermal Performance of Dry Storage Casks.” The draft NUREG-2174 report evaluates the thermal impact of varying environmental conditions and transient thermal behavior when subjected to a sudden boundary condition change in spent fuel dry storage casks. Different cask designs are evaluated in the draft NUREG report. The NRC will consider the analysis results in the report when performing technical reviews, therefore applicants should consider them when applying for cask certification. The analysis results in draft NUREG-2174 can be used as additional guidance when considering the thermal impact of the environmental factors in the thermal performance of dry storage systems.

The purpose of this notice is to provide the public with an opportunity to review and provide comments on Draft NUREG-2174, “Impact of Variation in Environmental Conditions on the Thermal Performance of Dry Storage Casks.” Any comments received will be considered in the final version or subsequent revisions of the draft NUREG.

Dated at Rockville, Maryland, this 24th day of February, 2015.

For the Nuclear Regulatory Commission.

Christian Araguas,
Chief,
Containment, Structural, and Thermal Branch,
Division of Spent Fuel Management,
Office of Nuclear Material Safety and Safeguards.
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